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THE MUSHROOM GROWERS'
ASSOCIATION

MGA
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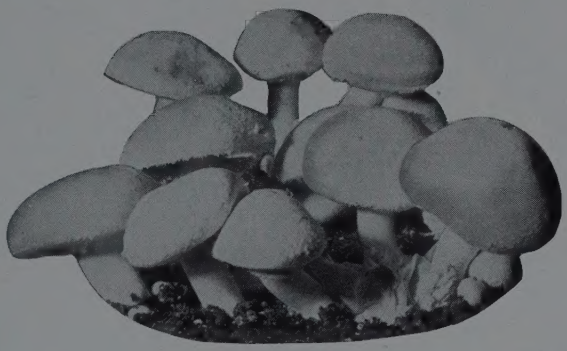

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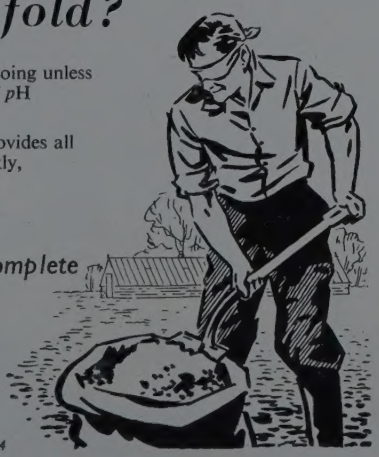

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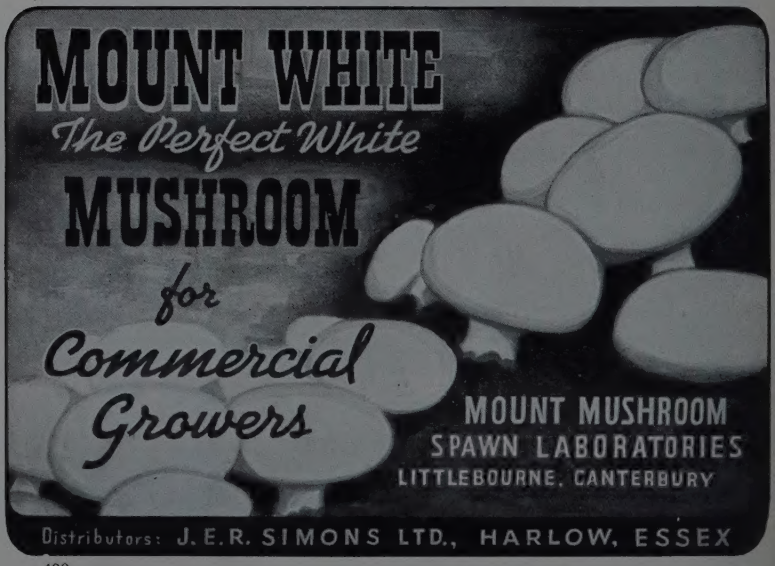

The
MGA BULLETIN

DECEMBER 1954
NUMBER 60

EDITORIAL

POINT OF DEPARTURE

It is right and proper that this month's Editorial should be devoted to the departure of the MGA Office from Yaxley to Bedford Square, London, home of the National Farmers' Union.

The name of Yaxley, home for so long of the MGA, will long remain synonymous with the mushroom growing industry, not only of this country, but throughout far wider fields, and few if any people, aware of the true nature of things, will view this change without some slight tinge of regret. For those who mothered the foundation of this Association and for those who have watched carefully over it ever since and have been and still are, closely connected with Yaxley, this change is a wrench indeed and understandably so. Yet whilst Yaxley, geographically, is in the centre of things, Bedford Square, situated in one of the more pleasanter spots in London, is infinitely more suitable for a fast growing Association like the MGA and, geography apart, is certainly more central.

Spare a thought nevertheless, for those who, whilst seeing full well the point of departure, mourn the change nevertheless. Sentiment! —yes, most surely for does not sentiment play a very great part in our national make up?

It is fitting therefore that, in this, the first issue sent out from Bedford Square, full and fitting tribute should be paid to those who, at some considerable costs to themselves, both financial and in physical and mental effort, made the MGA possible and the hope is that they, who were in at the beginning, will continue their active interest and watch over the well being of this Association with continued pride.

For those who may perhaps wonder if a small Association like this is in grave danger of being completely lost in the vast organisation of the NFU, let there be no doubts whatsoever for the MGA, whilst having office accommodation with the Union, remains a separate entity. Long may it remain so.

What better than to end this with a quote from a letter received at the MGA office only last week. It reads: "I wonder if some of our growers here deserve anything, with the chicken-hearted way they support any effort. Had it not been for the work and go put into it by Mr. Fred. Atkins, we should never have had a MRA or a MGA . . . . . I see you will be going up in the world. Having been in the NFU for nearly 50 years I know you will be in good company." W.R.A.

EXECUTIVE COMMITTEE

TUNBRIDGE WELLS NO "FLASH IN THE PAN"

A meeting of the MGA Executive Committee took place in London, on Tuesday, 16th November, Capt. G. P. Lawrence (Chairman) presiding, supported by Mr. G. W. Baker (Vice-Chairman). Others present included:—Messrs. G. V. Allen, Guy Reed, Raymond Thompson, E. A. Gook, W. A. B. Harding, F. Bleazard, N. R. Cooper, F. C. Atkins, J. Stewart-Wood and the Secretary.

As Chairman of the Exhibition Sub-Committee, Mr. G. W. Baker gave a comprehensive report on the Tunbridge Wells Exhibition which, he stated, was a great success. He was very happy to say that now, even though the price had reverted to normal, the consumption of mushrooms in Tunbridge Wells was three times the pre-Exhibition figure.

A discussion took place on next year's Exhibition and Mr. Baker, Mr. Allen and Mr. Thompson were elected to a sub-committee to investigate the possibilities of Brighton, Hastings and Worthing in that order.

Representations are to be made to the NFU with a view to the present paying Honorary Members to, in future, be known as Associate Members.

It was also decided that the end of the Financial Year should be changed from 31st August to 31st October, to conform with Headquarters rules.

Mr. Guy Reed was unanimously elected Chairman of the Publicity Sub-Committee and Mr. Raymond Thompson (former Chairman) also agreed to serve on that Committee with the MGA Chairman and Vice-Chairman ex-officio.

DEATH OF Mr. T. F. N. ALEXANDER

Mr. T. F. N. Alexander, who died at the age of 55, on Tuesday, 16th November, after a short illness, was the son of the late Thomas Alexander, of Ashcott, Somerset. He was Chairman of the Eclipse Peat Co. Limited since its inception and, with the late Mr. John Alexander and the late Mr. P. J. Slee, largely created the demand for the use of Peat in Horticultural and other industries which resulted in developing the Peat Industry until it reached its present importance.

YAXLEY RESEARCH STATION

The Mushroom Research Association's land, laboratory and other buildings have been sold to the Home Grown Threshed Peas Joint Committee, of 45 Bedford Square, London, W.C.1, headquarters of the NFU.

We understand that research on peas is contemplated.

About £1,000-worth of MRA laboratory and office equipment has been transferred to the Glasshouse Crops Research Institute at Littlehampton, Sussex.

YOU CAN ALL HELP *says*

RAYMOND THOMPSON (*MGA Publicity Committee*)

The Spawn Levy on Growers has commenced, and Publicity money is starting to come in from the other sections of the mushroom industry. The Mushroom Growers' Association will soon have the money to seek professional aid in sorting out the many suggestions which have been made, and putting some of them into practice.

In the meantime, much can still be done by individual growers, and others interested in the future of the industry to publicize mushrooms.

Growers who have not already done so can approach their local newspapers, and may achieve the striking success of Captain Lawrence. They can send to them recipe leaflets for their cookery experts and the " Way of the Mushroom Grower " leaflets as a guide to reporters who visit growers to write them up. This leaflet has the dual objective of explaining why mushrooms are not cheap, and to discourage the inexperienced and undercapitalized people who may be tempted to rush into mushroom growing. They can be handed with advantage to the inevitable visitors who want to know " how to start growing Mushrooms." It should certainly discourage them.

Much useful publicity can be done by posting the recipe leaflets to local hotels and restaurants. Many greengrocers will display them, and even hand them out to mushroom purchasers if approached direct by a grower. Growers who retail the produce can stamp on their addresses and hand them out for their own personal publicity.

Several growers have now decorated their vehicles with Mushroom publicity—notably Messrs. Stewart-Wood and Middlebrook. My lorry in the photograph has created much local interest.

All of these things keep mushrooms before the public eye, and that is a large part of publicity. It will never be enough to leave publicity entirely to the Mushroom Growers' Association and their fund. Everyone with an interest in the industry can and should help.

"COMMERCIAL MUSHROOM GROWING"

By **M. H. PINKERTON**

pp. 223. 20 pl. and 25 text figs. London: Ernest Benn. 1954. 21/-

A few weeks ago a nurseryman whose main winter glasshouse crop is mushrooms remarked that he grew mushrooms but was not a Mushroom Grower. The distinction is a just one and if he buys a copy of *Commercial Mushroom Growing* it will not develop the thumb-marked pages of its brother which is sure to be found in the packing shed of the Mushroom Grower opposite.

The author's main concern is, of course, culture in specially built houses and he makes some stimulating observations on the construction of these with special reference to methods of ventilation present and future. But in view of his own ventures, his remarks on other structures and on ridge beds are certain to be backed with experience.

In the sections on composts, casing and crops, explanations accompany instructions for handling and although a few of the explanations might serve as motions for a debate at a meeting of the Mushroom Growers' Association, the author has rightly refused to sacrifice brevity and lucidity to controversy.

In the chapter on straw and manure there is a successful attempt to explain in homely terms the meaning of pH. This will be hailed with delight, for whether or not the Mushroom Grower profits from a knowledge of the pH of his compost, the symbol has become part of his make-up.

A diagram titled *Dr. Lambert's Experimental Heap* (Fig. 9) dominates the chapter on composting and the diagram is neatly dissected in the text giving *raison d'etre* for the prismatic heaps which have been seen in certain quarters and the origin of which has been tinged with not a little mystery. There is less enthusiasm for alternative and synthetic composts though several formulae are given. The inclusion of growing by the MRA synthetic compost among methods which are ' either very new or very unorthodox ' is presumably a matter of relativity.

Nine pages are devoted to the ' sweat-out ' which immediately follows the filling of the beds; directions are given for varying the procedure according to the condition of the compost. The functions of that all-important trinity, temperature, ventilation and moisture, are examined in detail; much good may be done if growers can be induced to control these and ' let the pH take care of itself.'

One might suspect that the author's training in agriculture is responsible for his novel approach to the problem of casing soil. There cannot be many Mushroom Growers who purposefully manure and cultivate a field months or even years before the soil is dug. The idea that this might be done is food for thought. To the remark that ' it is a wise precaution to try out the casing soil for next year's crop,' many a grower will breathe 'How true.' British manufacturers of soil tensiometers will doubtless wonder whether the statement at the top of page 135 is due to long delay in printing and the omission of reference to the now widely used mixture of peat and chalk as a casing could be similarly explained.

Not without reason the publisher's blurb claims that the chapter on Tray Culture is the highlight of the book. The fully mechanised system is described in detail with diagrams to make the understanding easier. Not every grower will unreservedly agree that ' For growing on a large scale, it is certainly the most profitable system so far devised ' but the section may be guaranteed to prompt further debate. Users of trays will applaud the ingenuity of the method (Fig. 25) of removing a single tray from the stack.

The three chapters devoted to disinfection, diseases and pests are bubbling over with ideas and with information which has been assembled from diverse sources. Directions will be found for the use of the more common disinfectants though preference is given to use of live steam (1) at the end of cropping, (2) in the empty house and (3) at peak heat. Since the lethal action of heat is general, the superiority

of the method would be difficult to dispute where it is applicable. Among the fungicides recommended, it is surprising to learn that Cheshunt Compound is effective in the control of Damping Off of mushrooms as well as the very different Damping Off of seedlings against which it has been used for many years.

Inevitably, such an assembly of material, as the book contains, offers a hunting ground for *errata* and the author will doubtless be his own hunter before the next edition. Nevertheless the reader's attention might be drawn to a few possible pitfalls. Thus, on p.130, it seems likely that the words ' 40 per cent. ' should be omitted as explained in the paragraph on formaldehyde (p. 149). The American trade names for ' zinc ethylene bis-dithiocarbamate ' (p. 163), which is generally known as ' Zineb,' should be ' Parzate Zineb ' and Dithane Z-78 respectively.

Although perhaps true for growers north of the Thames, sufferers from the ravages of Phorids in the south will regard as too optimistic the remark (p. 185) that new insecticides have turned fly control into a ' mere matter of routine hygiene ' whereas the test for nematodes (p. 195) may reduce to unnecessary pessimism the grower whose beds contain only saprophytic types. Much of the information on pests is of American origin and is not necessarily applicable to this country.

Commercial Mushroom Growing is packed with information, which is supported by twenty-five text illustrations, twenty half-tone plates and a useful index. Any Mushroom Grower who does not possess a copy will be at a disadvantage.

H.H.G.

Obtainable from the Mushroom Growers' Association, 45 Bedford Square, London, W.C.1, at 21/6d. inclusive post.

SEEN THESE ?

THE FRED. ATKINS ALPHABET—N

NAAS. The National Agricultural Advisory Service was formed in 1945. The MGA tried unsuccessfully in 1950, to persuade the Service to appoint a mushroom specialist; we were told " we don't think the provision of specialist advisers on individual crops is the right way to go about things." So growers in trouble should first seek the advice of their County NAAS horticultural or glasshouse crops officer; if he cannot help he will pass on the query to one of the specialist officers. The NAAS acts as a liaison between growers and research workers.

Nematodes. See Eelworm.

Nicotine. Special care must be taken with nicotine, for it is a poison. Kligman says a pyrethrum-nicotine dust kills Cecid larvae, and a nicotine-sulphate spray kills springtail and the long-legged mite.

Nitrogen. Bacteria require nitrogen, and compost is a result of bacterial action. That is why we add nitrogen-containing preparations, such as poultry guano, Adco M, dried blood or urea, to light, strawy manure.

NPK Ratio. Edwards has given an interesting table of suggested *supplements* to straw for synthetic composts on a Nitrogen : Phosphorus : Potassium ratio. Among them are Adco M (5 : 0.7 : 0), Lambert, 1935 (10 : 3 : 0), Stoller, 1943 (18 : 1 : 3.5), Sinden, 1946 (10 : 0 : 7-15) and MRA, 1949 (17 : 2 : 3.3). These are not complete formulae as given here, of course.

Nutrition. The nutritive value of the cultivated mushroom has now been established, one would imagine, to the satisfaction of all. But who is aware of the benefits a steady diet of mushrooms confers? Here is something the MGA should publicise *outside the Bulletin and the Trade Press.* Let us not lower our voices because, as Min. of Ag. Bull. 34 puts it, " although mushrooms do possess definite food values, they are eaten primarily for their flavour." The flavour of mushrooms is superlative AND mushroom do you good!

PREPARE TO REPEL BOARDERS?

says M. C. LUXMOORE (Snowcap Mushrooms Ltd.)

It is difficult to imagine that the inherent phlegm of the Sassanach is so deeply rooted that some vestige of dismay, evoked by Conversation Piece (Atkins—Pinkerton), will not eventually make itself apparent.

Annihilation threatens the easy going English from across the Border and while we dally with such trifles as two-phase composting and pea-sized mushrooms, divers disappear into the inky blackness of Glaswegian caves.

The fecund pen of F.C.A. spills out grave tidings however he may seek to disguise it.

Messrs. Pinkerton and Atkins would have us believe that Overseas Markets are the territorial demands in question, and that the Home Market is to be left undisturbed. Our generation should know something of territorial demands.

Mr. Pinkerton threatens to dive once again, and if on surfacing he can again report ' ventilation perfect,' another five tons of mushrooms will course into his canning plant.

We should not impose on Mr. Pinkerton's generosity too long. The English Market is the best in the world and Mr. Pinkerton produces mushrooms at one shilling a pound. He therefore could still make a healthy profit on the Fresh Market at one and sixpence. This would mean that the whole English Market would fall into his lap. Moreover it is unlikely that Foreign Markets are inexhaustible.

Mr. Pinkerton reminds us of his Spawn business, but this would not die with ourselves; it would I imagine be fully occupied in producing spawn for his colossus.

Mr. Pinkerton's remark about the Phorid Fly is a tribute to his continual self effacement and generous forbearance.

It is you, Mr. Pinkerton, not the Phorid, who is the fly in the ointment.

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LEICESTERSHIRE FARM WALK

Mr. N. R. Cooper, of Kimcote, Rugby, youngest member of the MGA Executive Committee, surprised many of—but certainly not all—the visitors to his 7,000 sq. ft. tray system farm on Saturday, 30th October, when he stated that a heap of horse manure, delivered at his farm the previous Monday would be in the trays the following Wednesday, or within ten days of being delivered.

Surprise number two was provided by Mr. J. Stewart-Wood, of Ford, Nr. Aylesbury, Bucks., former MGA Chairman, who arrived for this farm walk and area meeting by his light plane, landing in a nearby meadow after a fifty mile cross country flight.

The attendance of about forty-five members was most satisfactory but it was perhaps fortunate that Mrs. Cooper had provided refreshments for considerably more people than the number who had signified their intention of being present.

After a short introductory talk in the composting shed, in the course of which Mr. Cooper explained his growing methods, his devotion to the tray system and his method of heating, he went on to explain his method of short composting, as laid down by Sinden and Hauser, but also made it clear that it was not possible to describe rapid composting in a few short words. He did say later however that anyone who desired to try this method should carefully study the article published in " Mushroom Science 2." "At Kimcote," he said, " we find that two days are usually necessary before the material used is thoroughly wet and hot, after which the seven-day schedule, as laid down by Sinden and Hauser, is followed. As ammonia is being given off in large quantitites at the end of this time and the compost is extremely wet, it is most important that Phase Two is properly carried out in a well constructed and well insulated heat room or rooms." Answering questions, Mr. Cooper said that, with short composting, he used some five tons of manure for 1,200 sq. ft. of trays, as against nine tons for a similar area under long composting conditions.

On this farm heat is supplied by low pressure steam from a boiler equipped with a forced draught unit. It is coke fired.

For casing, a mixture of coke dust and peat is used, in equal parts (volume).

Cropping is on a tight seven week schedule and crops are averaging out at 1½ lb. per square foot with five crops per year. The increase per sq. ft. coincided with the adoption of the short composting method and the introduction of the coke-peat casing mixture and, during the discussion which followed the farm walk, Mr. Cooper freely admitted that he was not absolutely certain whether the composting or the casing had been responsible for the increased yield. He was however quite certain that production had gone up by a quarter lb. per sq. ft. and he himself was quite satisfied with things as they were.

After touring the farm—there are definite plans for expansion—the entire company was entertained to tea by Mrs. Cooper. Later there was an interesting discussion opened by Mr. S. Middlebrook.

FIRST STEPS IN GROWING

by McGregor Bulloch

11—THE CASING AND HANDLING OF BEDS BEFORE CROPPING

A reasonable period must elapse after spawning before the compost is cased and it is not quite clear as to why this should be so. We know that some form of covering must be given since the compost will not yield by itself, without the stimulus given to it by a covering of soil or other suitable material.

Growers have their own methods of storing and applying casing soil or peat, according to the particular layout obtaining on each farm, but whatever system may be used, cleanliness is of the utmost importance. This has been emphsized before, but the warning is repeated for the benefit of the novice. All the care and hygienic methods which have gone into the making of a compost, culminating in the curing and part-sterilizing of the mushroom-growing medium, can be wasted if slipshod methods of storing and applying the casing are used.

If the casing material has been stored and mixed under cover on a clean concrete floor, then it is worth continuing the good work by handling it with care on the way from the store to the beds or trays. For example, if metal bins are used to transfer the casing, then they should not be allowed to rest on the contaminated ground outside the growing houses, to be set down again possibly on the casing material in the store each time they are replenished. This could lead to widespread infection by fungus spores and insect eggs, larvae, etc.

Shelf-beds are much easier to case than trays *in situ*, provided that there is sufficient clearance between them. The simplest way to case trays is at the moment of stacking into the growing-house. This condition applies only when there are sufficient peak-heat rooms to allow of spawning and running the mycelium in the peak-heat room for the necessary fortnight, or in a separate spawn-running room. The latter is of course, an expensive refinement, but does ensure that the growing houses are not occupied for more than a short period by non-productive trays.

Some doubt arises as to whether the casing should be fairly moist when applied to the compost. It seems that a perfect compost, with a strong mycelial run, can put up with any degree of moisture in the newly-applied casing, and the safest procedure is to make sure that the casing is just a little more than damp where there is any doubt about the quality of the compost, and the mycelium is running sparsely, with heavy strands forming, rather than mycelium of a fine even texture.

With regard to the depth of casing, excessive thickness should be avoided at all costs, whether the compost is good or bad, and the reason is easily given. If the mycelium is stringy, and obviously struggling to exist in the uncased compost, how much more difficult will be its struggle if a thick layer of casing is placed over it to exclude oxygen and air-movement generally. A thin casing would at least give it a sporting chance of surviving, provided that great care is taken not to over-water, which could result in a complete crop failure. It is assumed, in this article, that the compost is moist enough.

If the compost is a good one, and the mycelium is running strongly, then the casing may be made thin also, because even over-watering will not cause much damage if evaporation can take place shortly after watering. This does not mean that too thin a casing is desirable. An inch to an inch and a quarter is about right, allowing for surface irregularities.

Casing trays is a simple matter of judgment, since, once the amount necessary for casing a tray is established, then the containers should be of such a size as to hold exactly that amount.

Shelf-beds may be cased reasonably accurately by using long wooden rods of the required thickness laid along the beds, and the casing material is smoothed off to bring it level with the tops of the rods: or, if the shelf uprights are at a regular distance apart, the bays so formed can be treated as separate units, and so many buckets may be applied per bay.

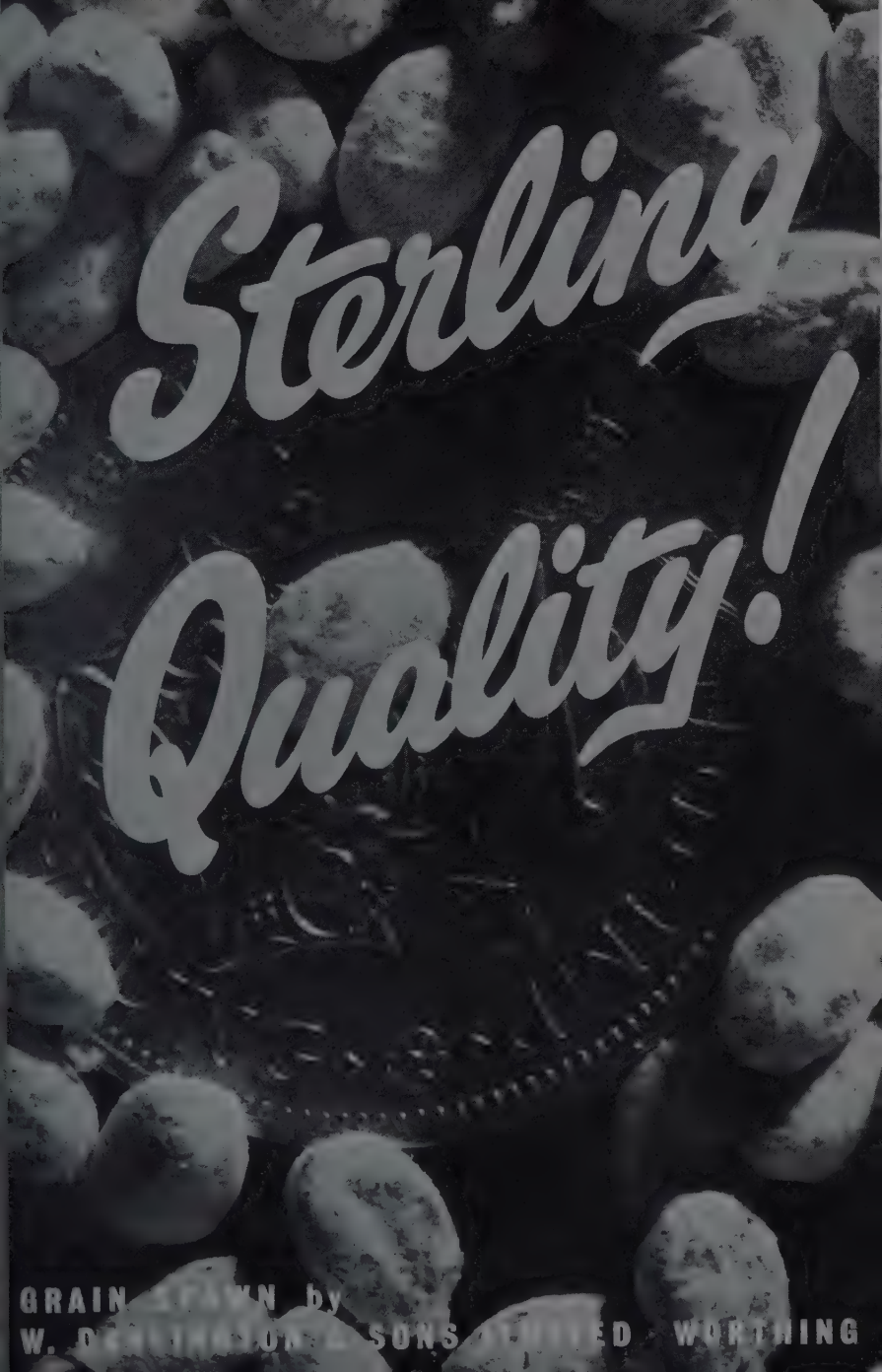
When casing has been completed and the sheds cleaned up, the main attention to be given is to the watering of beds, and this is only necessary when the beds dry out. Some growers do not water before the first pinheads show, but this is risky. The casing should be maintained in a damp condition, or delayed cropping may result. Certainly no possible harm can come to a bed which is lightly and frequently misted after casing.

An air temperature of about 65° F. is ample during this period. It should be lowered slowly to 60° F. after the appearance of the first pinheads. At the same time extra ventilation can be given to encourage evaporation from the casing and hence fruiting. No alarm need be felt if the compost temperature rises to 80° F., or sometimes more during the warmer months soon after casing, because a strongly running mycelium generates heat and is an encouraging sign.

Of course, it is important to look at the house *early* between casing and cropping, in case any unwelcome moulds or insects make their appearance.

LETTER

The way to stimulate the demand for cultivated mushrooms is to make them comparable in flavour and tenderness with field mushrooms. There is a rush by housewives to buy the latter when available—and how right they are! M-m-m, Mushrooms! C. W. NICHOL.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AN AMERICAN GROWER'S DIARY

By JOSEPH M. MICHAELS, Naperville, Illinois

15th September

There is nothing more awe-inspiring to a mushroom grower than to watch the mushrooms pinning up in the new beds for the first time. I stand looking over my beds fascinated. The overwhelming number of mushrooms, the random and statistical distribution of these, and the multiplicity of sizes—and all white—brings to mind the Milky Way in the sky. The first break is truly a " Galaxy of Mushrooms." The Ancient Britons called the Milky Way " the fairies path." Mushroom growers know of " Fairy Rings." By the way, the brand name of the mushrooms sold by our Mushroom Growers' Association of Chicago is the " Fairy Ring Mushrooms."

22nd September

To-day we are turning manure for the next house. Standing on that composting wharf for hours on end gives me time to think about composting. Is it such an enigma? Why turn manure three or four or more times? There is, we all know, the anaerobic core in the centre and bottom of the pile; and it is a most unsatisfactory place for manure to be. Why return manure which has been composted aerobically and suitably near the outside part of the pile where it will become anaerobic and unsuitable on the next turning? Each new turning renders a large proportion of well composted and finished manure unsuitable !

To me two turnings is all that is necessary and of course the pasteurization in the house. The piles must be small enough to be aerobic and large enough to conserve heat and moisture. The interval between the turnings must be shorthened if the piles are made larger for some reason. The first turning gets all the water possible. It is impossible to overwet good straw manure. The excess water merely runs off. Unless all the manure is wetted at this time we will get a non-uniform fermentation. My new composting wharf in conjunction with the new tray houses will contain an apron and a pit to catch all of the run-off. This will be re-pumped back into the pile. The reason is obvious: dissolved in the run-off water are many nutrients. Why should we use supplements to fortify manure and permit to leach away the soluble organic forms of nitrogen and phosphates already present in good manure? Among other things straw to me is functional in composts because it absorbs in liquid form the various nitrogens—ammonical and urea. We all know how soluble ammonia is in water. To permit the leaching away of nutrient already in manure is rather inimical to the purposes of composting. The goal should be the conservation of nutrients. I fail to see a 28-day composting period; unless we do not wish to inventory the losses. Some growers idolize " nicely steaming " piles. To me " nicely steaming " (for 28 days) piles produce losses as follows: (1) losses of nitrogen by nitrification of nitrates to atmospheric nitrogen, and (2) the steaming away of nitrogen as ammonia (ammonia is volatile). To replace these in the form of supplements and " activators " is to be oblivious about proper handling of composts. I agree however, that some supplementation is needed in poor manures.

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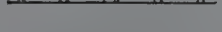
LETTER

After reading the MGA Bulletin for a considerable period, I think it contains far too much technical and too little general information. The latter I feel sure, would be of more interest to the average grower (the ordinary man). Under general information would come: safe and suitable preservative for our trays, some positive information about casing materials, insecticides, ventilation and air circulation; any benefits gained by using dried blood, fertilizers, etc.; what is the average yield one should expect from a standard tray system, subject to compost, casing and growing conditions being correct (per crop, not per year); where one can obtain any of the inventions which appear to be manufactured for the benefit of the mushroom grower, etc.

Why not have the MGA conference during the summer, when for the distant member travelling would be so much pleasanter and the small grower would forget about the heating system? What do other members think about it? A further point. As Yorkshire seems to have as many growers as Sussex, why doesn't one of the sundriesmen open a depot in Yorkshire to serve the North? W. J. GOWLAND.

Most of the points raised have, in fact, been dealt with in earlier Bulletins but articles on the subjects named are to be written by Dr. R. L. Edwards, formerly Director of MRA Research—Editor.



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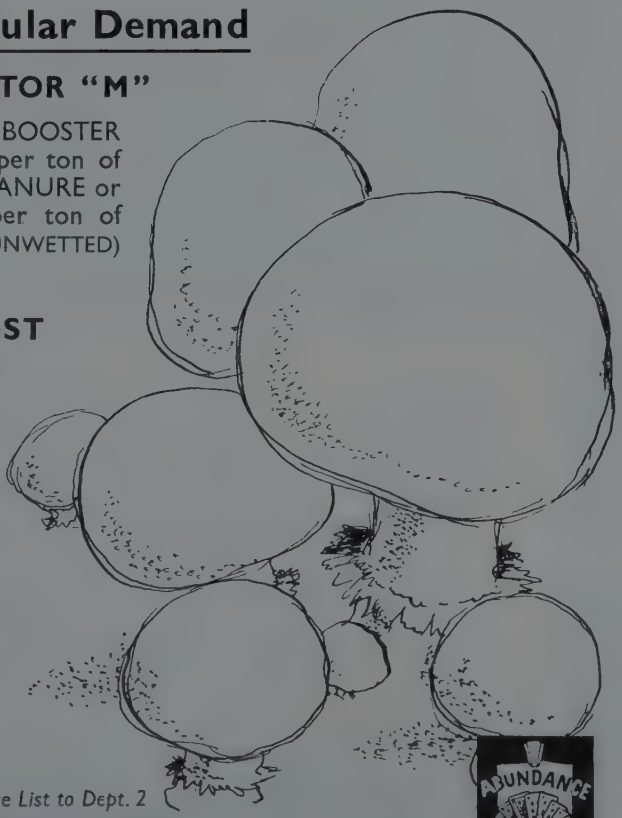

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Brantom, Shirley & Co. Ltd., Vicarage Wharf, Battersea, S.W.11.
British Rototherm Co. Ltd., Merton Abbey, S.W.19.
Broome & Green Ltd., Covent Garden Market, W.C.2.
Celcure Ltd., Aldwych House, Aldwych, W.C.2.
Collingridge, J. Ltd., 36 Wellington Street, Covent Garden, W.C.2.
Cyanamid Products Ltd., Bush House, Aldwych, W.C.2.
Doran, Lt. Col. G., United Services Club, 116 Pall Mall, S.W.1.
Elliott, Thomas Ltd., Eagle Mills, 120 New Church Road, S.E.5.
Figgis, F. G., 72 Stafford Court, Kensington, W.8.
Filmer, F. L., Union Wharf, Wenlock Road, N.1.
Filmer, R. H. Ltd., Union Wharf, Wenlock Road, N.1.
Flower, Major R. A., c/o Lloyds Bank, Cox & King's Branch, Pall Mall, S.W.1.
Hedge, C. J., 4 Raymond Buildings, Gray's Inn, W.C.
Hopewell, R., 21 Coronation Court, Hamfrith Road, Stratford, E.15.
Knight, L., Brooklyn, Sewardstone, Chingford, E.4.
Lake, S. E., 61 Curzon Street, W.1.
Penny, A. C., 35 King Street, Covent Garden, W.C.2.
Poupart, T. J. Ltd., 110 Long Acre, W.C.2.
Sutherland, Major G. A. B., c/o Lloyds Bank, Cox & Kings Branch, 6 Pall Mall, S.W.1.
Woods, Wm., 3 Botolph Alley, E.C.3.
Wood, G. B., Putney & Coombe Mushroom Farm, 392 Upper Richmond Road, Putney, S.W.15.

MADEIRA

Sumares, J. A., Rua do Pina 25, Funchal.

MEXICO

Hongos de Mexico, Madrid, Num. 21-213, Mexico D.F.4.

MIDDLESEX

Berry, A. J., The Dell Mushroom Farm, Reservoir Road, Ruislip Common.
Cansdale, P. F., The Circuits, Cuckoo Hill, Pinner.
Mason, Douglas, 18 Eighth Parade, Golf Links Estate, Southall.
Palfrey, E., 32 Manor Park Gardens, Edgware.
Sanders, S. T., c/o Hartstoke Fruiterers Ltd., Brentford Market, Brentford.
Stevens, P. J., Poplar Farm, Chertsey Road, Feltham.
Williams, J., Brentford Market, Brentford.

NORFOLK

Britton, Major B. G., Mundesley House, Mundesley.
Gough, F. & Son Ltd., 63/69 Fishergate, Norwich.
Hannent, S. W., Fifers Nurseries, Spixworth, Norwich.
Read, F. G., South Cottage, Deopham, Wymondham.

NORTHAMPTONSHIRE

Abbott, E. A., Brookside, Titchmarsh, Kettering.
Atkins, P. C., 368 Fulbridge Road, Peterborough.
Brown, George, 35 Windsor Road, Yaxley, Peterborough.
Brown, H. A., Avalon, Peterborough Road, Farcet, Peterborough.
Fuller, Mrs. Ruth M., Park House, Thorney, nr. Peterborough.
Garrow, J. P., The Barn, 8 High Street, Roade.
Gooding, J. A., 9 Chain Close, Peterborough.
Jepson, A. E., 242 Eye Road, Peterborough.
Luxmoore, H. B., Snowcap Mushrooms Ltd., Yaxley, Peterborough.
Luxmoore, M. C., Snowcap Mushrooms Ltd., Yaxley, Peterborough.
Noble, B. A., Noble Mushrooms Ltd., Yaxley, Peterborough.
Wharton, J., 159 Northfield Road, Peterborough.

NORTHERN IRELAND
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Batty, W., 32 Francis Street, Newtownards, Co. Down.
Bell, George, Hazel Glen, Magheraknock, Ballynahinch, Co. Down.
Forsythe, W. J. & Son Ltd., Fairview Nurseries, Bangor, Co. Down.
McBriar, R. J., Overdale, Saintfield, Belfast.
McCredy, S., Royal Nurseries, Portadown.
Nelson, R. G., Ballylumin, Ahoghill, Co. Antrim.
Patterson, Robert, Monlough Food Production Co. Ltd., Ballygowan, Belfast.
Young, Mrs. M. B., Mountsandel, Coleraine, Co. Londonderry.

NORWAY
Eyde, S. M., Sande Bruk, Horten.

NOTTINGHAMSHIRE
Bentley, A. J., Frearson Farm, New Eastwood, nr. Nottingham.
Cave, A. E., The Hollies, East Bridgeford.
Cwynar, S., 392 Valley Road, Basford.
Kublicki, S., Old Estate House, Wollaton, Nottingham.
Lichtarowicz, Col. L., Mapperley Mushroom Farm, 7 Mapperley Park Drive, Nottingham.
Smalley, Geo. Ltd., Sneinton Market, Nottingham.
Tooley, C. W. & Sons Ltd., Wholesale Market, Nottingham.

NORTHUMBERLAND
Leatherland, G. E., Ltd., 20/22 St. Andrew's Street, Newcastle-on-Tyne.
Pearson, S. & Son, 40 Green Market, Newcastle-on-Tyne 1.

NEW ZEALAND
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OXFORDSHIRE
Courage, Mrs. H., Edgcote, Banbury.
Dudley, Ivor, Elmwood, Black Burton.
Mann, Christopher, Haileywood Estate, Shiplake.
Matthews, Major M. J., Foxholes, Kingham.
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PORTUGAL
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SCOTLAND
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Allan, F., Cedars, Forgandenny, Perthshire.
Allsop, H. S., Kingsley, Fennwick Road, Kilmaurs, Ayrshire.
Beveridge, John, Bridgend, Kinross.
Clelland, Wm. Jnr., Crag Cottage, Burnfoot, Kirkmuirhill, Lanark.
Dumbreck, R. D., Mossgiel, Dysart, Fife.
Fraser, R. J., Rowan Cottage, Garmouth, Morayshire.
Galbraith, W. S., Albethy, Bridge of Allan, Stirlingshire.
Gaw, Thomas, 20 Corrie Crescent, Saltcoats, Ayrshire.
Hampton, J. W., Durris House, Drumoak, Aberdeenshire.
Helebrandt, K. S., Kingsley, Crieff, Perthshire.
Jackson, T., Dillaburn, Lesmahagow, Lanark.
Lessels, H. C., c/o A. K. M. Christie, 42 Frederick Street, Edinburgh.
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Pickles, G. & H., Enchmarsh, Leebotwood.
Thomas, Major H. Seymour, Oerley Hall, Oswestry.
Watson, Angus, c/o Lower Hall, Worfield, Bridgnorth.
Williams, E. C. F., High-Leyes, By-Pass Road, Church Stretton.
Wilson, J. S., Aqualate Park, Newport.

SOMERSET

Eclipse Peat Co. Ltd., Ashcott.
Griffiths, G., Wrington Vale Nurseries, Congresbury.
Pointing, A. G., Grove House, Weston Park, Bath.
Pointing, S., Byfield Farm, Combe Down, Bath.
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Dickinson, Thomas, Wholesale Market, Wolverhampton.
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Howse R. R. Nine Acre Farm Codsall.

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Walsall Mushroom Co. Ltd., Longwood, Walsall.

SUFFOLK

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Batchelor, J. G., Borrow House, Churt.
Branca, Alfredo, Elmbridge Road, Cranleigh.
Burrows, S., 105 Oaks Avenue, Worcester Park.
Bushell, D. C. & Co. Ltd., Sandhurst Mills, Camberley.
Carew-Shaw, E., Courtlands, Shipley Bridge, Horley.
Chapman, H. B., Newstead Hall, Horley.
Dalton, D. N., Leigh Mill House, Godstone.
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Harrington & Jessop, 57 Abbey Road, Horsell, Woking.
Heather Farm Ltd., Horsell Common, Woking.
International Heating & Ventilating Co. Ltd., 4 Denbigh Gardens, Richmond.
Jennings, R. W., 37 Kingston Road, Leatherhead.
Jones, A. D., "Hythings," Station Road East, Oxted.
Lockie, G. D., Plant Protection Ltd., Research Station, Fernhurst, Haslemere.
Millais, E. G., Crosswater Farm, Churt.
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Richards, John F., Woolhams Bank, 73 Harestone Hill, Caterham.
Rudkin, T. J., Highfields Nurseries, Big Common Lane, Bletchingley.
Shackleford Nurseries Ltd., Eashing, nr. Godalming.
Sparling, T. A. G., Bridges Wood, Burstow, nr. Horley.

SUSSEX

Adams, A. E., Sunnybank, West End, Henfield.
Albrecht, C., Barnhouse Farm, Shipley, Horsham.
Ball, H. N., The King's Arms, Rotherfield.
Barr, G. P., c/o G. P. Barr & H. J. Barton, Bosworths, Slaugham, nr. Handcross.
Barton, H. F., Winterpick Nurseries, Church Lane, Plummers Plain, Horsham.
Bell, L. G., North Angmering Nursery, Arundel Road, Angmering.
Boxall, H. G., Lansdowne Nurseries, Dappers Lane, Angmering.
Brautigam, V., Ivy Arch Road, Worthing.
Bulloch, McGregor, The Cottage, New Road, Littlehampton.
Chamberlin, W. L., Duncans, Billingshurst.
Church Farm Nurseries Ltd., Rustington.
Coggle, Group Capt. C. K. J., Woodend Garden, West Stoke, Chichester.
Coulson, H. L., Lindum Nurseries, Littlehampton Road, Worthing.
County Agricultural Officer, Sussex (West) A.E.C., 40 North St., Chichester.
Culverwell, E. O. Ltd., Malling Works, Lewes.
Curry, Lt. Col. A. R., Rest Harrow Farm, West Chiltington.
Darlington, R. G., Southcourt Road, Worthing.
Darlington, W. & Sons Ltd., Southcourt Road, Worthing.

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Day, Gerald, W., 29 Derek Road, North Lancing.
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Dowmunt, T. M., Holly Grove, Newick.
Ewart, N. P., Rest Harrow Farm, West Chiltington Common, Pulborough.
Farmers' & Growers' Industries Ltd., British Railway Goods Yard, West Worthing.
Faulkner, M. M., Mill Cottage Market Garden, Horam.
Forsdike, L., Elm Nursery, Elm Drive, Lancing.
Francomb, K. V. S., Meadow Nursery, Oakwood Road, Burgess Hill.
Godfrey, W., 19 Offington Lane, Worthing.
Godsmark, E. B. & Son, Grinstead Nursery, Grinstead Lane, Lancing.
Godson & Mallard Ltd., Ferringham Lane, Ferring.
Grant, G. F. B., Church House, Washington, Pulborough.
Greenyer, C. T., Broadwater Green Nurseries, Worthing.
Harris, J., Dappers Lane, Angmering.
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Hopkins, R. J., Hammer Lane Farm, Vines Cross, Horam.
Hunt, R. H. J., Rotherlea, Easebourne, Midhurst.
Jarvis, M. C., Culberry Nursery Ltd, Dappers Lane, Angmering.
Jupp, J. S., Bridge Nurseries, Coldwaltham, Pulborough.
Keens, W. F., Meadway Mushroom Farm, Littlehampton Road, Durrington, Worthing.
Kessler, J. L., Dingley Nurseries, Rustington.
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Knight, F., The Glen, Langney, nr. Eastbourne.
Knight, W., Arendee, Langney, Eastbourne.
Langford Nursery, Clymping, Littlehampton.
Leeney, A. G., Worthing Vineries Ltd., 234 Dominion Road, Worthing.
Leverington, P. G., 20 Palmeira Avenue, Hove.
Linfield, A. G., Chesswood Nurseries, Thakeham.
Lisher, G. A., Brierley, Grinstead Lane, Lancing.
Lisher, H., The Finches Nursery, Elm Grove, Lancing.
Lower North Barn Nurseries Ltd., Old Salts Farm Road, Lancing.
Paget, C., Half Moon Nurseries, Roundstone Lane, East Preston, Littlehampton.
Passmore, J. J., Anchorage, Worthing Road, Rustington.
Pledger, G. E., 32 Coombe Rose, Worthing.
Rice, George, "Thirlmere," Littlehampton Road, Goring-by-Sea.
Sampson, S. A. F., Rushmans Nursery, Oving, nr. Chichester.
Sandford, Capt. A., Searles Gardens, Fletching.
Saunders, R. H., Oaklands, 71 Shirley Drive, Hove 4.
Sparkes, A. G., Smugglers Farm Ltd., West End Nurseries, Roundstone Lane, East Preston, nr. Littlehampton.
Sparkes, E. M., Abbey Nurseries, Sompting, Worthing.
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Thompson, R., Church Farm House, East Wittering, Chichester,
Ulm, J., Cupressus Nurseries, Washington, Pulborough.
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SWEDEN

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Sjostedt, Sven, P. Hakanssons Konserver A/B, Eslov.
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Kuhn & Co., Champignon-Kulturen, St. Gallen.
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Brandywine Mushroom Corporation, West Chester, Pennsylvania.
de Wire, Paul, Kennett Square, Chester County, Pa.
Dimm, S. D., 850 Thornton Street, San Leandro, California.
Domosh, Stanley, J. B. Swayne & Son Inc., Kennett Square, Pa.
Dyke, R. A., Indiana Mushroom Corporation, West Terre Haute, Indiana.
Fairchild, Thomas, Winconsin Mushroom Co., Route 14, Box 513, Milwaukee 14, Winconsin.
Fred, Corwin, Lebanon, Ohio.
Frezzo, E. & Sons, Toughkenamon, Pa.
Fry, Norman, Walnut Hill Mushrooms Inc., Bettsville, Ohio.
Green, Jacob M., 1454 Valley Road, Coatesville, Pa.
Green, W. Howard, c/o Concord Foods Inc., Concordville, Pennsylvania.
Holston, Earl M., Grocery Store Products Co. Inc., Union & Adams Streets, West Chester, Pennsylvania.
Knaust, Henry, West Camp, New York.
Knaust, Henry Jnr., Knaust Mushrooms Inc., Vallmeyer, Illinois.
Kneebone, Dr. Leon R., Associate Professor of Botany, Pennsylvania State College, Pa.
Lambert, L. F., Coatesville, Pennsylvania.
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Leslie, Neale, 629, " C " Street, Petaluma, California.
Losito, Vincent & Sons, Toughkenamon, Pa.
Marino, Albert Di., Toughkenamon, Pa.
Mastarone, F. J., Mushroom Farm, RD2, Leechburg, Pa.
Miami Mushroom Co., 5550 N.W. 36th Avenue, Miami, Florida.
Michaels, Joseph M., R2 Box 197, Naperville, Illinois.
Michigan Mushroom Co., Dawn Fresh Products, Niles, Michigan.
Mushroom Supply Co., (U.S.A.), Toughkenamon, Chester County, Pennsylvania.
Ostrom Mushroom Co., 12645 27th Avenue North East, Seattle 55, Washington.
Pusey, J. D., Avon Heights Mushrooms, Box F., Avondale, Pa.
Reeve, Eldrow, Box 215, West Chicago, Illinois.
Santucci, V. & A., Avondale, Pa.
Slonina, Mitchell, S.S. Food Producers Inc., Box 194, Mt. Prospect, Illinois.
Snow Cap Mushrooms Inc., 71-75 Wyman Street, Woburn, Mass.
Speakman, E. B., Avondale, Chester County, Pa.
Strode, E. A., Box 104, Avondale, Pennsylvania.
Thompson, F. G., Mushroom Supply Co., Toughkenamon, Chester Co., Pennsylvania.
West, Howard R., West Foods Inc., P.O. Box 590, Salem, Oregon.
West, Roland E., West Foods of California, Souquel, California.
Wick, Robert L., 220 Joliet Street, West Chicago, Illinois.
Yarboro, Scott P., P.O. Box 66, Lacey, Washington.
Yoder, John B., Butler Co. Mushroom Farm, West Winfield, Pennsylvania.

WALES

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Elan Valley Products Ltd., Dol-Afallen, Llandrindod Wells, Rads.
Guthrie, J. A., Westbourne, Coalbrook Road, Pontyberem, Llanelly, Carms.
Llanerch Mushroom Farm Ltd., St. Asaph, N. Wales.
Morgan, Wm. & Co. Ltd., Custom House Street, Cardiff, Glamorgan.
Wyndham-Jones, H., Llanfoist, nr. Abergavenny, Mon.

WARWICKSHIRE

Clifford, Walter & Sons Ltd., Wholesale Market, Coventry.
Cooper, N. R., Shadowlawn Products, Kimcote, Rugby.
Dark, A. Reginald, Krad House, Solihull Road, Shirley.
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Nicholls, Francis Ltd., Smithfield Market, Birmingham.
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Richards, W. D. Ltd., Smithfield Market, Birmingham.
Turner, D. A., Bretby House, Hurley, Atherstone.
White, J. V. & Co., Smithfield Market, Birmingham.
Wildsmith, E. S., 229 Holbrook Lane, Coventry.
Williamson, A. (19) *Ltd.*, Smithfield Market, Birmingham 5.

WILTSHIRE

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Nichols, Capt. R. M., Merry Orchard Produce Ltd., Whiteparish, Salisbury.
Williams, E., " Lismore," Little Somerford, Nr. Chippenham.

WORCESTERSHIRE

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Lea, J. S. B., Dunley Hall, Stourport.

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Atkinson, W. S., Blackgates Farm, Tingley, nr. Wakefield.
Bardsley, F. M., Low Mill, East Ayton, Scarborough.
Barraclough, H., Westerton Farm, West Ardsley, Wakefield.
Bradford Fertilizer Co. Ltd., Whitefield Place, Girlington, Bradford.
Briggs, Chas. C., Oak Mount, Robin Hood's Bay, Whitby.
Brook, J., Woodleigh, Wakefield Road, Morley, nr. Leeds.
Brook, T. B., Rods Farm, Morley, nr. Leeds.
Broomhead, R., Beckwith Knowle Gardens, Otley Road, Harrogate.
Cartlidge, H. (Morley) Ltd., Laneside Farm, Churwell, Leeds.
Dalton, Alan, Folly Hall Farm, Outwood, nr. Wakefield.
Emsley & Collins (Bradford) Ltd., St. James' Market, Bradford.
Emsley & Collins (Halifax) Ltd., Piece Hall, Halifax.
Emsley & Collins (Huddersfield) Ltd., Brook Street, Huddersfield.
Fairweather, A., Scott Lane, Bardsey, nr. Leeds.
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Rowland, E., 39 Surrey Street, Sheffield 1.
Scott, J. P. F., The End House, Boston Spa.
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Stuart & Simms, Burstwick, Hull.
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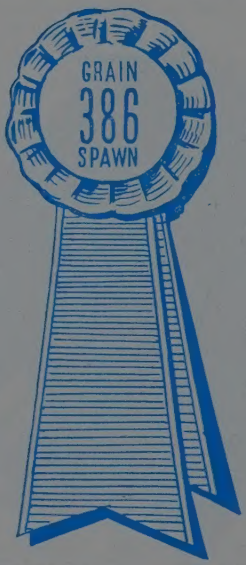

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